

## CLAIMS

What is claimed is:

1. A sleep support mechanism, for establishing a bed, comprising:  
a cone member having a first end and a second end, the first end coupling with a pad;  
a first spring having a first end and a second end, the first end of the first spring coupling with the first end of the cone member, the second end of the first spring being coupled with a first panel assembly, the first spring for operationally engaging the cone member with the first panel assembly; and  
a second spring having a first end and a second end, the first end of the second spring coupling with the second end of the cone member, the second end of the second spring coupling with a second panel assembly, the second spring for operationally engaging the cone member with the second panel assembly,  
wherein the cone member, including the first and second spring, operationally engage the first panel assembly with the second panel assembly to provide adjustable support to the pad.
2. The sleep support mechanism of claim 1, further comprising a frame including a cross support member.
3. The sleep support mechanism of claim 1, further comprising a frame support mechanism.
4. The sleep support mechanism of claim 1, wherein the pad is a mattress.
5. The sleep support mechanism of claim 1, wherein the first and second panel assemblies further comprise a plurality of panels.
6. The sleep support mechanism of claim 1, further comprising bedding materials.

7. The sleep support mechanism of claim 1, wherein the bed is established with a plurality of sleep support mechanisms.

8. A sleep support mechanism, for establishing a bed, comprising:
- a first cone member including a first end and a second, the first end being coupled with a pad;
  - a second cone member including an inner wall defining a recessed area and an outer wall, the second cone member coupled with the first cone member via the inner wall of the defined recessed area, the first cone member further including a first end operationally engaging with a first panel assembly and a second end coupled with a second panel assembly; and
  - an engagement member coupled with the outer wall of the second cone member proximal to the first end of the second cone member, the engagement member for operationally engaging the second cone member with the first panel assembly,
- wherein the first and second cone members provide adjustable support to the pad.
9. The sleep support mechanism of claim 8, further comprising a retaining mechanism.
10. The sleep support mechanism of claim 8, wherein the retaining mechanism further comprises a retaining ring and an O-ring element.
11. The sleep support mechanism of claim 8, wherein the retaining mechanism further comprises a travel guide and a stop.
12. The sleep support mechanism of claim 8, further comprising a frame including a cross support member.
13. The sleep support mechanism of claim 8, wherein the first and second panel assemblies further comprise a plurality of panels.
14. The sleep support mechanism of claim 8, wherein the bed is established with a

plurality of sleep support mechanisms.

15. A sleep system, comprising:
- a frame including cross support members;
  - a first panel assembly and a second panel assembly, the first and second panel assemblies being coupled with the frame;
  - a sleep support mechanism coupled with the first panel assembly and the second panel assembly, the sleep support mechanism for coupling with the first and second panel assemblies with one another; and
  - a pad coupled with the sleep support mechanism, the pad for being engaged by a user,
- wherein the sleep support mechanism enables adjustable support provided by the pad of the sleep system.
16. The sleep system of claim 15, further comprising a frame support mechanism.
17. The sleep system of claim 15, wherein the first and second panel assemblies include a plurality of panels.
18. The sleep system of claim 15, further comprising a container for packaging the sleep system.
19. The sleep system of claim 15, wherein the sleep support mechanism comprises:
- a cone member having a first end and a second end, the first end coupling with a pad;
  - a first spring having a first end and a second end, the first end of the first spring coupling with the first end of the cone member, the second end of the first spring being coupled with the first panel assembly, the first spring for operationally engaging the cone member with the first panel assembly; and
  - a second spring having a first end and a second end, the first end of the second spring coupling with the second end of the cone member, the second end of the second

spring coupling with the second panel assembly, the second spring for operationally engaging the cone member with the second panel assembly,

wherein the cone member, including the first and second spring, operationally engage the first panel assembly with the second panel assembly to provide adjustable support to the pad.

20. The sleep system of claim 15, wherein the sleep support mechanism comprises:

a first cone member including a first end and a second, the first end being coupled with a pad;

a second cone member including an inner wall defining a recessed area and an outer wall, the second cone member coupling with the first cone member within the defined recessed area, the first cone member further including a first end operationally engaging with the first panel assembly and a second end coupled with the second panel assembly; and

an engagement member coupled with the outer wall of the second cone member proximal to the first end of the second cone member, the engagement member for operationally engaging the second cone member with the first panel assembly,

wherein the first and second cone members provide adjustable support to the pad.